

Title: NUCLEIC ACID MOLECULES ENCODING A TRANSMEMBRANE SERINE PROTEASE 7, THE ENCODED POLYPEPTIDES AND METHODS BASED THEREON

Applicant: Edwin Madison et al.

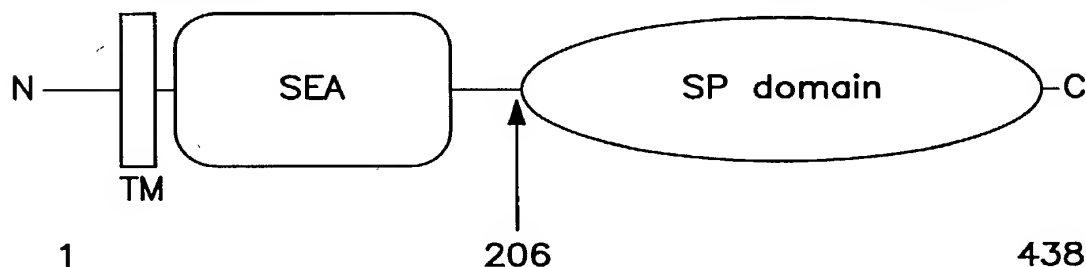
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Domain organization and amino acid sequence of MTSP7



10	20	30	40	50	60
MMYTPVEFSEAEFSRAEYQRKQ	QFWDSVRLALFTLAIVAI	IGIAIGIVTHFVVEDDKSFY			
70	80	90	100	110	120
YLASFVKVTNIKYKENYGIRSS	REFIERSHQIERMMSRIFR	HSSVGGRFIKSHVIKLSPE			
130	140	150	160	170	180
QGVDILIVLIFRYPSTDSAEQ	IKKKIEKALYQSLKTKQLS	LTKPSFRLTPIDSKKMRN			
190	200	210	220	230	240
LLNSRCGIRMTSSNMPLPASS	TQRI	VQGRETAMEGEWPWQASL	QLIGSGHQCGASLISN		
250	260	270	280	290	300
TWLLTAHCFWKNKDPTQWIAT	FGATITPPAVKRNVRKIIL	HENYHRETNENDIALVQLS			
310	320	330	340	350	360
TGVEFSNIVQRVCLPDSSIK	LPPKTSV	FVTGFGSIVDDGPIQNT	LRQARVETISTDVCNR		
370	380	390	400	410	420
KDVIDGLITPGMLCAGFMEG	KIDACKGDSGGPLVYDNH	DIWYIVGIVSWGQSCALPK	KPG		
430					
VYTRVTKYRDWIASKTGM*					

↓ = protease cleavage site

FIG. 1

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10 20 30 40 50 60
AGATCAGATGGCGACTGAATAGAAGCTGCCCCAGTCTGGGTTTCATGATGTACACACCTG
TCTAGTCTACCGCTGACTTATCTTCGACGGGGTCAGGACCAAGTACTACATGTGTGGAC

70 80 90 100 110 120
TTGAATTTTCAGAAGCTGAATTCTCACGAGCTGAATATCAAAGAAAGCAGCAATTTTGGG
AACTTAAAAGTCTTCGACTTAAGAGTGCTCGACTTATAGTTTCTTTCGTCGTTAAAAACCC

130 140 150 160 170 180
ACTCAGTACGGCTAGCTCTTTTTCACATTAGCAATTGTAGCAATCATAGGAATTGCAATTG
TGAGTCATGCCGATCGAGAAAAGTGAATCGTTAACATCGTTAGTATCCTTAACGTTAAC

190 200 210 220 230 240
GTATTGTTACTCATTTTGTGTGTTGAGGATGATAAGTCTTTCATTACCTTGCCCTCTTTTA
CATAACAATGAGTAAAAACAACAACCTCTACTATTTCAGAAAGATAATGGAACGGAGAAAAAT

250 260 270 280 290 300
AAGTCACAAATATCAAATATAAAGAAAAATTATGGCATAAGATCTTCAAGAGAGTTTATAG
TTCAGTGTTTATAGTTTATATTTCTTTTAATACCGTATTCTAGAAAGTTCTCTCAAATATC

310 320 330 340 350 360
AAAGGAGTCATCAGATTGAAAGAATGATGTCTAGGATATTTTCGACATTCTTCTGTAGCGG
TTTCTCAGTAGTCTAACTTTCTTACTACAGATCCTATAAAGCTGTAAGAAGACATCCGC

370 380 390 400 410 420
GTGATTTATCAAATCTCATGTTATCAAATTAAGTCCAGATGAACAAGGTGTGCATATTC
CAGCTAAATAGTTTATAGTACAATAGTTTAATTCAGGTCTACTTGTTCACACCTATAAG

430 440 450 460 470 480
TTATAGTGCTCATATTTTCGATACCCATCTACTGATAGTGCTGAACAAATCAAGAAAAAAA
AATATCACGAGTATAAAGCTATGGGTAGATGACTATCACGACTTGTTTAGTTCTTTTTTTT

490 500 510 520 530 540
TTGAAAAGGCTTTTATATCAAAGTTTGAAGACCAACAATTGTCTTTGACCATAAACAAC
AACTTTTCCGAAATATAGTTTCAAACCTCTGGTTTGTAAACAGAACTGGTATTTGTTTG

550 560 570 580 590 600
CATCATTTAGACTCACACCTATTGACAGCAAAAAGATGAGGAATCTTCTCAACAGTCGCT
GTAGTAAATCTGAGTGTGGATAACTGTCTGTTTCTACTCCTTAGAAGAGTTGTCTAGCGA

610 620 630 640 650 660
GTGGAATAAGGATGACATCTTCAAACATGCCATTACCAGCATCCTCTTCTACTCAAAGAA
CACCTTATTCTTACTGTAGAAGTTGTACGGTAATGGTCGTAGGAGAAGATGAGTTTCTT

670 680 690 700 710 720
TTGTCCAAGGAAGGGAACAGCTATGGAAGGGGAATGGCCATGGCAGGCCAGCCTCCAGC
AACAGGTTCCCTTCCCTTTGTCTGATACCTTCCCTTACCGGTACCGTCCGGAGGTCTG

730 740 750 760 770 780
TCATAGGGTCAGGCCATCAGTGTGGAGCCAGCCTCATCAGTAACACATGGCTGCTCACAG
AGTATCCCAGTCCGGTAGTCACACCTCGGTCTGGAGTAGTCATTGTGTACCGACGAGTGTCT

790 800 810 820 830 840
CAGCTCACTGCTTTTGGAATAAAGACCCAACTCAATGGATTGCTACTTTTGGTGCAA
GTCGAGTGACGAAAACCTTTTATTTCTGGGTGAGTTACCTAACGATGAAAACACGTTT

850 860 870 880 890 900
CTATAACACCACCGCAGTGAAACGAAATGTGAGGAAAATTATTCTTCATGAGAATTACC
GATATTGTGGTGGCGTCACTTTGCTTTTACACTCCTTTTAAATAAGAAGTACTCTTAATGG

910 920 930 940 950 960
ATAGAGAAACAAATGAAAATGACATTGCTTTGGTTTCAGCTCTCTACTGGAGTTGAGTTT
TATCTCTTTGTTTACTTTTACTGTAACGAAACCAAGTCGAGAGATGACCTCAACTCAAAA

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970 980 990 1000 1010 1020
CAAATATAGTCCAGAGAGTTTGGCTCCCAGACTCATCTATAAAGTTGCCACCTAAAACAA
GTTTATATCAGGTCTCTCAAACGGAGGGTCTGAGTAGATATTTCAACGGTGGATTTTGTT

1030 1040 1050 1060 1070 1080
GTGTGTTTCGTACAGGATTTGGATCCATTGTAGATGATGGACCTATACAAAATACACTTC
CACACAAGCAGTGTCTAAACCTAGGTAACATCTACTACCTGGATATGTTTTATGTGAAG

1090 1100 1110 1120 1130 1140
GGCAAGCCAGAGTGGAAACCATAAGCACTGATGTGTGTAACAGAAAGGATGTGTATGATG
CCGTTCCGTCTCACCTTTGGTATTCGTGACTACACACATTGTCTTTCTACACATACTAC

1150 1160 1170 1180 1190 1200
GCCTGATAACTCCAGGAATGTTATGTGCTGGATTTCATGGAAGGAAAAATAGATGCATGTA
CGGACTATTGAGGTCTTACAATACACGACCTAAGTACCTTCCTTTTATCTACGTACAT

1210 1220 1230 1240 1250 1260
AGGGAGATTCTGGTGGACCTCTGGTTTATGATAATCATGACATCTGGTACATGTAGGTA
TCCCTCTAAGACCACCTGGAGACCAAATACTATTAGTACTGTAGACCATGTAACATCCAT

1270 1280 1290 1300 1310 1320
TAGTAAGTTGGGGACAATCATGTGCACTTCCCAAAAAACCTGGAGTCTACACCAGAGTAA
ATCATCAACCCCTGTAGTACACGTGAAGGGTTTTTTGGACCTCAGATGTGGTCTCATT

1330 1340 1350 1360 1370 1380
CTAAGTATCGAGATTGGATTGCCTCAAAGACTGGTATGTAGTGTGGATTGTCCATGAGTT
GATTCATAGCTCTAACCTAACGGAGTTTCTGACCATACATCACCTAACAGGTAACAA

1390 1400 1410 1420 1430 1440
ATACACATGGCACACAGAGCTGATACTCCTGCGTATTTTGTATTGTTTAAATTCAATTAC
TATGTGTACCGTGTCTCGACTATGAGGACGCATAAAACATAACAAATTTAAGTAAATG

1450 1460 1470 1480 1490 1500
TTTGGATTAGTGCTTTTGCTAGATGTCAAGAAGCCCTTCAGACCCAGACAAATCTAATAT
AAACCTAATCACGAAAACGATCTACAGTTCTTCGGGAAGTCTGGGTCTGTTTAGATTATA

1510 1520 1530 1540 1550 1560
CCTGAGGTGGCCTTTACATACGTAGGACCAACCCTCTCTACCATGAGGGAAGAAGACAC
GGACTCCACCGGAAATGTATGCATCCTGGTTTGGGAGAGATGGTACTCCCTTCTTCTGTG

1570 1580 1590 1600 1610 1620
AGCAAATGACAGACAGCACCTATTCCCTTACTCACAAGGGAACCTGCTTGTGATACCTTCT
TCGTTTACTGTCTGTCTGGATAAGGAATGAGTGTTCCTTTGACGAACACTATGAAGGA

1630 1640 1650 1660 1670 1680
AATAAGATAAATAAGTGGTTTCCCTCAATTGAAGACAGGAACATCATTTTCCACAGGATA
TTATTCTATTTATTCACCAAAGGGAGTTAACTTCTGTCTTGTAGTAAAGGTGTCTCTAT

1690 1700 1710 1720 1730 1740
TGAAGAGCTGCCAGTAATGCCAAAATCTTACCTCATATAATACCTGGAGCATGTGAGATT
ACTTCTCGACGGTCATTACGGTTTTAGAAATGGAGTATATTATGGACCTCGTACACTCTAA

1750 1760 1770 1780 1790 1800
CTTCTAGTGAAAAAGAACAGTCTTCCCTGAAGACTCAGGGCTTCAACATCTAGAACTGA
GAAGATCACTTTTTCTTGTGAGAAGGGACTTCTGAGTCCCGAAGTTGTAAGATCTTGACT

1810 1820 1830 1840 1850 1860
TAAGTGGACCTTCAGTGTGCAAGAATGGAGAAGCATGGGATTTCATTATGACTTGAACCT
ATTACCTGGAAGTCACACGTTCTTACCTCTTCGTACCTTAAACGTAATACTGAACCTGA

1870 1880 1890 1900 1910 1920
GGGCTTATATCTAATAATACAGAGCACTATCACTAACCTCAACAGTTGACATTTTAAAG
CCCGAATATAGATTATTATGTCTCGTGTAGTATGGAGTTGTCAACTGTAAAATTTTC

HELLER EHRMAN WHITE & MCAULIFF LLP

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1930 1940 1950 1960 1970 1980
TTTTTAAATGTATCTGAACTTGCTGTTAACACAGTGTTATAACTCAAGCACTAGCTTCAG
AAAAATTTACATAGACTTGAACGACAATTGTGTCACAATATTGAGTTCGTGATCGAAGTC

1990 2000 2010 2020 2030 2040
GAAGCATGTTGTGTTGTTAAGAGCTTTTTCTGATTTATCTTTAACAGCATCTTGCCATC
CTTCGTACAACACAACAATTCTTCGAAAAGACTAAATAAGAAATTGTCGTAGAACGGTAG

2050 2060 2070 2080 2090 2100
TATATGTTAGTAGCAGTTGGCCCAGAAAGGACAAAAAAAAAAAAAAAAAAAAAAAAAAAA
ATATACAATCATCGTCAACGGGGTCTTTCCTGTTTTTTTTTTTTTTTTTTTTTTTTTTT